



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.:

Agency Interest No. 67572  
Activity No. PER20060002

Mr. John O. Ferguson  
Plant Manager  
E.I. du Pont de Nemours & Co., Inc.  
3460 Highway 44  
Darrow, LA 70725

RE: Operating Permit major modification, Burnside Plant, E.I. du Pont de Nemours & Co., Inc.  
Darrow, Ascension Parish, Louisiana

Dear Mr. Ferguson:

This is to inform you that the Part 70 operating permit for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the application submitted and the approval in no way relieves of the applicant of the obligation to comply with all applicable requirements.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_ of \_\_\_\_\_, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_ day of \_\_\_\_\_, 2007

Permit No.: 0180-00007-V4

Sincerely,

Chuck Carr Brown, Ph.D.  
Assistant Secretary

CCB:CXL  
cc: EPA Region VI

**ENVIRONMENTAL SERVICES**  
: PO BOX 4313, BATON ROUGE, LA 70821-4313  
P:225-219-3181 F:225-219-3309  
WWW.DEQ.LOUISIANA.GOV

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**E.I. DU PONT DE NEMOURS & CO., INC. / BURNSIDE PLANT**  
**PROPOSED PART 70 AIR OPERATING PERMIT MODIFICATION & PSD PERMIT**

The LDEQ, Office of Environmental Services, is accepting written comments on Part 70 Air Operating Permit Modification and PSD Permit for E.I. du Pont de Nemours & Co., Inc. (DuPont), 3400 Highway 44, Darrow, Louisiana 70725 for the Burnside Plant. **The facility is located at 400 Highway 44, Darrow, Ascension Parish.**

E.I. du Pont de Nemours & Co., Inc. (DuPont), Burnside is a sulfuric acid plant which operates under Permit No. 0180-00007-V3 issued on September 4, 2003.

DuPont requested to install dual absorption technology at the existing sulfuric acid plant to reduce sulfur dioxide emissions. Conversion efficiency of 99.8% will be achieved and sulfur dioxide emissions will be reduced to <3.0 lbs per tons of sulfuric acid produced. As part of the project, DuPont will increase the capacity of the sulfur burning contact side by re-rating existing process equipment and sizing new and replaced equipment for dual absorption to the re-rated capacity. The design sulfuric acid capacity will increase from 1800 tons acid/day to 2300 tons acid/day. Permitted emission of SO<sub>2</sub> is decreased by 90% even with the capacity increase.

**This permit was processed as an expedited permit in accordance with LAC 33:I.Chapter 18.**

Estimated emissions in tons per year are as follows:

| Pollutant                           | Permitted | Proposed | Change   |
|-------------------------------------|-----------|----------|----------|
| PM <sub>10</sub>                    | 0.25      | 0.38*    | + 0.13   |
| SO <sub>2</sub>                     | 10,402.09 | 1,007.51 | -9394.58 |
| NO <sub>x</sub>                     | 66.53     | 77.19    | + 10.66  |
| CO                                  | 80.62     | 144.59   | + 63.97  |
| VOC                                 | 3.47      | 3.56     | + 0.09   |
| H <sub>2</sub> SO <sub>4</sub> Mist | 47.38     | 63.96    | +16.58   |

\*not include the H<sub>2</sub>SO<sub>4</sub> Mist

The dual absorption project will reduce SO<sub>2</sub> emission by 9394.58 TPY. As a result of the capacity increase, potential sulfuric acid mist emissions will increase above the significance level for PSD. Proposed particulate matter of ten microns and smaller (PM<sub>10</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compound (VOC) emissions will not increase above PSD significance levels.

The project is significant for increases in H<sub>2</sub>SO<sub>4</sub> mist and requires Prevention of Significant Deterioration (PSD) review. Emissions of a pollutant regulated under PSD shall be controlled by implementing Best Available Control Technology (BACT).

Emissions of sulfuric acid mist will be controlled through Brownian Diffusion mist elimination candles in both the interpass absorber tower and the final absorber tower. The dual absorption technology with Brownian diffusion mist elimination is determined as BACT.

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Wednesday, June 13, 2007.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The proposed permits, permit application, and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).**

Additional copies may be reviewed at the Ascension Parish Library - Headquarters located at 500 Mississippi Street, Donaldsonville LA 70346.

Inquiries or requests for additional information regarding this permit action should be directed to Ms. Cathy Lu, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3124.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [deqmaillistrequest@la.gov](mailto:deqmaillistrequest@la.gov) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at [www.deq.louisiana.gov/apps/pubNotice/default.asp](http://www.deq.louisiana.gov/apps/pubNotice/default.asp) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).**

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.doa.louisiana.gov/oes/listservpage/ldeq\\_pn\\_listserv.htm](http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 67572,**

| Permit Type    | Permit Number | Activity Tracking Number |
|----------------|---------------|--------------------------|
| Part 70 Permit | 0180-00007-V4 | PER20060002              |
| PSD Permit     | PSD-LA-722    | PER20060003              |

Scheduled Publication Date: Wednesday, May 9, 2007 in THE ADVOCATE and Friday, May 11, 2007 in THE GONZALES WEEKLY CITIZEN

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**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Burnside Plant**  
**E.I. du Pont de Nemours & Co., Inc.**  
**AI No. 67572**  
**Darrow, Ascension Parish, Louisiana**

**I. BACKGROUND**

E.I. du Pont de Nemours & Co., Inc. (DuPont) operates the Burnside sulfuric acid plant under Permit No. 0180-00007-V3 issued September 4, 2003.

**II. ORIGIN**

A permit application and Emission Inventory Questionnaire was submitted by DuPont on December 14, 2006, requesting a major modification of the Part 70 operating permit.

**III. DESCRIPTION**

Sulfur and spent sulfuric acid are used as raw materials for the sulfuric acid production process. Sulfur is received by truck and spent sulfuric acid is received by pipeline, barges, and railcars. Spent sulfuric acid from alkylation and sulfonation processes, containing 5 to 8 weight percent volatile organic compounds (VOCs), is decomposed to sulfur dioxide in a high temperature natural gas-fired furnace. The gaseous sulfur dioxide is cooled and cleaned to remove impurities and excess water vapor before entering the contact sulfuric acid process. The contact sulfuric acid process oxidizes sulfur to form sulfur dioxide gas in another combustion furnace.

The sulfur dioxide gas streams are combined and routed to the sulfuric acid process. The sulfur dioxide gas enters a four-pass catalytic converter where it is converted to sulfur trioxide that it is absorbed in two absorption towers (dual absorption technology) to form sulfuric acid. The final absorber tower will be equipped with a Brownian Diffusion mist elimination system to remove acid mist from the off-gases going to the plant stack.

Sulfuric acid is transferred from the absorption towers and accumulated in storage tanks prior to shipping. Liquid sulfur trioxide is produced by removing sulfur trioxide, via heating, from a concentrated sulfuric acid stream. The vaporized sulfur trioxide is purified, condensed, and accumulated in tanks prior to shipping

Presently, Burnside plant manufactures sulfuric acid using "single absorption" technology that burns elemental sulfur and spent sulfuric acids. The "single absorption" process is limited to a conversion of about 97%. At this lower conversion an emission of about 45 lb sulfur dioxide/ton of sulfuric acid can be expected.

DuPont will install dual absorption technology at the existing sulfuric acid plant to reduce

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sulfur dioxide emissions. Conversion efficiency of 99.8% will be achieved and sulfur dioxide emissions will be reduced to <3.0 lbs per tons of sulfuric acid produced. As part of the project, DuPont will increase the capacity of the sulfur burning contact side by re-rating existing process equipment and sizing new and replaced equipment for dual absorption to the re-rated capacity. Permitted emission of SO<sub>2</sub> is decreased by 90% even with the capacity increase.

**New equipment includes:**

- Final absorbing tower, pump tank, and cooler;
- Hot and cold interpass heat exchangers, economizer, and superheater.

**Modified or replaced equipment includes:**

- Converter, sulfur furnace/burner, and main blower/turbine;
- Absorber tower/demister tower, pump tank, and cooler;
- Railcar loading spots and river water pumps;
- Existing package boiler is being deleted and replaced with a new boiler equipped with ultra low NO<sub>x</sub> burners.

The design sulfuric acid capacity will increase from 1800 tons acid/day to 2300 tons acid/day.

Associated changes will be made to piping, ducts, electrical distribution systems, instrumentation, and other miscellaneous equipment.

Estimated emissions in tons per year are as follows:

| <u>Pollutant</u>                    | <u>Permitted</u> | <u>Proposed</u> | <u>Change</u> |
|-------------------------------------|------------------|-----------------|---------------|
| PM <sub>10</sub>                    | 0.25             | 0.38*           | + 0.13        |
| SO <sub>2</sub>                     | 10,402.09        | 1,007.51        | -9394.58      |
| NO <sub>x</sub>                     | 66.53            | 77.19           | + 10.66       |
| CO                                  | 80.62            | 144.59          | + 63.97       |
| VOC                                 | 3.47             | 3.56            | + 0.09        |
| H <sub>2</sub> SO <sub>4</sub> Mist | 47.38            | 63.96           | +16.58        |

\* not includes the H<sub>2</sub>SO<sub>4</sub> Mist

The dual absorption project will reduce SO<sub>2</sub> emission by 9394.58 TPY. As a result of the capacity increase, potential sulfuric acid mist emissions will increase above the significance

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level for PSD. Proposed particulate matter of ten microns and smaller (PM<sub>10</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compound (VOC) emissions will not increase above PSD significance levels.

| <u>Pollutant</u>               | <u>Baseline Actual Emissions</u> | <u>Projected Actual Emissions/PTE</u> | <u>Contemporaneous Changes</u> | <u>Net Changes</u> | <u>PSD de minimis</u> | <u>Review required?</u> |
|--------------------------------|----------------------------------|---------------------------------------|--------------------------------|--------------------|-----------------------|-------------------------|
| PM <sub>10</sub>               | 0.07                             | 0.38                                  | -                              | +0.31              | 15                    | No                      |
| SO <sub>2</sub>                | 10294.48                         | 1007.51                               | -                              | -9286.97           | 40                    | No                      |
| NO <sub>x</sub>                | 53.93                            | 77.19                                 | -                              | +23.26             | 40                    | No                      |
| CO                             | 51.17                            | 144.59                                | -                              | +93.42             | 100                   | No                      |
| VOC                            | 1.51                             | 3.56                                  | -                              | +2.05              | 40                    | No                      |
| H <sub>2</sub> SO <sub>4</sub> | 46.72                            | 63.96                                 | -                              | +17.24             | 7                     | Yes                     |

The project is significant for increases in H<sub>2</sub>SO<sub>4</sub> mist and requires Prevention of Significant Deterioration (PSD) review. Emissions of a pollutant regulated under PSD shall be controlled by implementing Best Available Control Technology (BACT).

Emissions of sulfuric acid mist will be controlled through Brownian Diffusion mist elimination candles in both the interpass absorber tower and the final absorber tower. The dual absorption technology with Brownian diffusion mist elimination is determined as BACT.

**IV. TYPE OF REVIEW**

This application was reviewed for compliance with the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and Prevention of Significant Deterioration (PSD). NESHAP does not apply.

This facility is a major source of toxic air pollutants (TAP). Sulfuric acid emissions from the plant are above the minimum emission rate (MER). Maximum achievable control technology (MACT) is not required for this Class III TAP and the Ambient Air Standard is being met.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title

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V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in XXXX, Baton Rouge, on April XX, 2007. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on April XX, 2007. The draft permit was also submitted to US EPA Region VI. All comments will be considered.

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: ISCST3

**VIII. General Condition XVII Activities**

| Work Activity               | Schedule | Emission Rates   |                 |                 |    |                                |
|-----------------------------|----------|------------------|-----------------|-----------------|----|--------------------------------|
|                             |          | PM <sub>10</sub> | SO <sub>2</sub> | NO <sub>x</sub> | CO | H <sub>2</sub> SO <sub>4</sub> |
| Spent Furnace Shutdown Vent | 30 /yr   |                  |                 |                 |    | 184 lbs/yr                     |

**IX. Insignificant Activities**

| Description  | Citation  |
|--|---|
| Miscellaneous Closed Drums and Containers < 250 gals | Insignificant Activity per LAC 33:III.501.B.5.A.2 |
| Miscellaneous Closed Vessels <10,000 gals            | Insignificant Activity per LAC 33:III.501.B.5.A.3 |

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| X.     | Table 1. Applicable Louisiana and Federal Air Quality Requirements |             |                     |   |    |    |    |      |      |      |      |      |      |      |      |    |                 |    |    |                 |
|--------|--|-------------|---------------------|---|----|----|----|------|------|------|------|------|------|------|------|----|-----------------|----|----|-----------------|
|        | ID No.:  | Description | LAC 33:III. Chapter |   |    |    |    |      |      |      |      |      |      |      |      |    |                 |    |    |                 |
|        |  |             | 5 <sup>1</sup>      | 9 | 11 | 13 | 15 | 2103 | 2107 | 2108 | 2113 | 2122 | 2153 | 2147 | 2149 | 22 | 51 <sup>*</sup> | 53 | 56 | 59 <sup>*</sup> |
| GRP002 | Facility wide  |             | 1                   | 1 | 1  | 1  |    |      |      |      | 1    |      |      |      |      |    | 1               |    | 1  | 1               |
| EQT015 | 3 Sulfur Tank  |             |                     |   |    | 1  |    | 3    |      |      |      |      |      |      |      |    |                 |    |    |                 |
| EQT016 | 4 Spent Sulfuric Acid TK 3   |             |                     |   |    |    |    | 1    |      |      |      |      |      |      |      |    |                 |    |    |                 |
| EQT017 | 5 Spent Sulfuric Acid TK 2   |             |                     |   |    |    |    | 1    |      |      |      |      |      |      |      |    |                 |    |    |                 |
| EQT019 | 7 Loading Racks  |             |                     |   |    |    |    |      | 1    |      |      |      |      |      |      |    | 1               |    |    |                 |
| EQT020 | 9 Sulfuric Acid TK   |             |                     |   |    |    |    | 3    |      |      |      |      |      |      |      |    | 1               |    |    |                 |
| EQT021 | 10 Vapor Combustion Unit   |             |                     | 1 | 1  | 1  | 3  | 1    |      |      |      |      |      |      |      |    |                 |    |    |                 |
| EQT022 | 12 Barge Loading Dock  |             |                     |   |    |    |    |      |      | 3    |      |      |      |      |      |    | 1               |    |    |                 |
| EQT023 | 14 East Sulfuric Acid TK   |             |                     |   |    |    |    | 3    |      |      |      |      |      |      |      |    | 1               |    |    |                 |
| EQT024 | 15 North Sulfuric Acid TK  |             |                     |   |    |    |    | 3    |      |      |      |      |      |      |      |    | 1               |    |    |                 |
| EQT025 | 16 South Sulfuric Acid TK  |             |                     |   |    |    |    | 3    |      |      |      |      |      |      |      |    | 1               |    |    |                 |
| EQT026 | 17 Oleum Storage TK  |             |                     |   |    |    |    | 3    |      |      |      |      |      |      |      |    | 1               |    |    |                 |
| EQT027 | 18 Sulfur Trioxide Demister  |             |                     |   |    |    |    |      |      |      |      |      |      |      |      |    | 1               |    |    |                 |
| EQT028 | 19 Portable Gasoline TK  |             |                     |   |    |    |    | 1    |      |      |      |      |      |      |      |    |                 |    |    |                 |
| EQT029 | 20 Spent Sulfuric Acid TK 1  |             |                     |   |    |    |    | 1    |      |      |      |      |      |      |      |    |                 |    |    |                 |
| EQT030 | 1 Sulfuric Acid Plant  |             |                     |   |    |    | 1  |      |      |      |      |      |      |      |      |    | 1               |    |    |                 |

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

| ID No.: | Description            | LAC 33:III.Chapter |   |    |    |    |      |      |      |      |      |      |      |      |    |     |    |    |     |
|---------|------------------------|--------------------|---|----|----|----|------|------|------|------|------|------|------|------|----|-----|----|----|-----|
|         |                        | 5 <sup>1</sup>     | 9 | 11 | 13 | 15 | 2103 | 2107 | 2108 | 2113 | 2122 | 2153 | 2147 | 2149 | 22 | 51* | 53 | 56 | 59* |
| EQT031  | 6 Sulfur Unloading Pit |                    |   |    | 1  |    |      |      |      |      |      |      |      |      |    |     |    |    |     |
| EQT032  | 21 Package Boiler      |                    | 1 | 1  | 3  |    |      |      |      |      |      |      |      |      |    |     |    |    |     |
| FUG002  | 13 Fugitives           |                    |   |    |    |    |      |      |      |      | 3    |      |      |      | 1  |     |    |    |     |

\*The regulations indicated above are State Only regulations.

<sup>1</sup> LAC 33:III.501.C.6 citations are federally enforceable except when it specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
  - 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
  - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank - The regulations clearly do not apply to this type of emission source.



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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

| ID No. | Description                 | 40 CFR 60 NSPS |    |    |    |   |     |     |     |   |   | 40 CFR 63 NESHAP |   |   |      |   |   |   | 40 CFR |      |    |    |    |  |  |
|--------|-----------------------------|----------------|----|----|----|---|-----|-----|-----|---|---|------------------|---|---|------|---|---|---|--------|------|----|----|----|--|--|
|        |                             | A              | Dc | Ca | Kb | H | III | NNN | RRR | A | M | FF               | V | F | ZZZZ | H | Q | U | FFFF   | DDDD | 64 | 68 | 70 |  |  |
| EQT028 | 19 Portable Gasoline TK     |                |    |    | 3  |   |     |     |     |   |   |                  |   |   |      |   |   |   |        |      |    |    |    |  |  |
| EQT029 | 20 Spent Sulfuric Acid TK 1 |                |    |    | 1  |   |     |     |     |   |   |                  |   |   |      |   |   |   |        |      |    |    |    |  |  |
| EQT030 | 1 Sulfuric Acid Plant       |                |    |    |    | 1 |     |     |     |   |   |                  |   |   |      |   |   |   |        |      |    | 1  |    |  |  |
| EQT031 | 6 Sulfur Unloading Pit      |                |    |    |    |   |     |     |     |   |   |                  |   |   |      |   |   |   |        |      |    |    |    |  |  |
| EQT032 | 21 Package Boiler           |                | 1  |    |    |   |     |     |     |   |   |                  |   |   |      |   |   |   |        |      |    |    |    |  |  |
| FUG002 | 13 Fugitives                |                |    |    |    |   |     |     |     |   |   |                  |   |   |      |   |   |   |        |      |    |    |    |  |  |

**KEY TO MATRIX**

1 - The regulations have applicable requirements that apply to this particular emission source.  
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.  
 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.  
 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.  
 Blank - The regulations clearly do not apply to this type of emission source.

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| <b>Table 2. Explanation for Exemption Status or Non-Applicability of a Source</b> |   | Notes   |
|---|---|---|
| ID No:  | Requirement   |   |
| EQT015<br>3 Sulfur Storage TK   | Control of Emission of Organic Compounds - Storage of VOC Compounds<br>[LAC 33:III.2103]  | DOES NOT APPLY. This tank does not store a volatile organic liquid.                     |
| EQT020<br>9 Sulfuric Acid TK  | NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels<br>[40 CFR 60.110b(a)]<br>Control of Emission of Organic Compounds - Storage of VOC Compounds<br>[LAC 33:III.2103] | DOES NOT APPLY. This tank does not store petroleum liquid.                              |
| EQT021<br>10 Vapor Combustion Unit  | Control of Emission of Organic Compounds - Storage of VOC Compounds<br>[LAC 33:III.2103]  | DOES NOT APPLY. This tank does not store a volatile organic liquid.                     |
| EQT022<br>12 Barge Loading Dock   | NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels<br>[40 CFR 60.110b(a)]<br>Emission Standards for Sulfur Dioxide - Emission Limitations<br>[LAC 33:III.1503]        | DOES NOT APPLY. This tank does not store petroleum liquid.                              |
| FUG002<br>13 Fugitives  | Marine Vapor Recovery<br>[LAC 33:III.2108]  | EXEMPT. Source emits <250 tons per year of sulfur compounds.                            |
| EQT023 14   | Fugitive Emission Control<br>{LAC 33:III.2122}  | DOES NOT APPLY. Barges are loaded with oleum, which is not a volatile organic compound. |
| EQT024 15   | Control of Emission of Organic Compounds - Storage of VOC Compounds<br>[LAC 33:III.2103]  | DOES NOT APPLY. This regulation is not applicable to sulfuric acid production.          |
|   |   | DOES NOT APPLY. This tank does not store a volatile organic liquid.                     |

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Burnside Plant**  
**E.I. du Pont de Nemours & Co., Inc.**  
**AI No. 67572**  
**Darrow, Ascension Parish, Louisiana**

| Table 2. Explanation for Exemption Status or Non-Applicability of a Source |  | Notes   |
|--|--|---|
| ID No:   | Requirement  |   |
|  | NSPS Subpart Kb -- Standards of Performance for Volatile Organic Liquid Storage Vessels<br>[40 CFR 60.110b(a)]   | DOES NOT APPLY. This tank does not store petroleum liquid.  |
| EQT028<br>19 Portable Gasoline TK  | NSPS Subpart Kb -- Standards of Performance for Volatile Organic Liquid Storage Vessels<br>[40 CFR 60.110b(a)]   | DOES NOT APPLY. This tank has a capacity <10,000 gals.  |
| EQT032<br>21 Package Boiler  | Emission Standards for Sulfur Dioxide - Continuous Emission Monitoring<br>[LAC 33:III.1511]<br>Emission Standards for Sulfur Dioxide - Emission Limitations<br>[LAC 33:III.1503] | EXEMPT. SO <sub>2</sub> continuous emissions monitors are not required for sources emitting less than 100 TPY SO <sub>2</sub> .<br>EXEMPT. Source emits <250 tons per year of sulfur compounds. |

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## Appendix A

**Burnside Plant**  
**E.I. du Pont de Nemours & Co., Inc.**  
**AI No. 67572**  
**Darrow, Ascension Parish, Louisiana**

The permittee shall meet the following emissions limitations:

| ID No. | Description               | Max. Operating Rate | Unit                                  | SO <sub>2</sub> | H <sub>2</sub> SO <sub>4</sub> |
|--------|---------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|
| EQT030 | Sulfuric<br>Acid<br>Plant | 2600 tons acid/day  | lb/ton of 100% sulfuric acid produced | 2.4             | 0.15                           |
|        |                           |                     | Max. lb/hr                            | 1625            | 16.3                           |
|        |                           |                     | TPY                                   | 1007.4          | 63                             |

**INVENTORIES**

**AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility**  
**Activity Number: PER20060002**  
**Permit Number: 0180-00007-V4**  
**Air - Title V Regular Permit Major Mod**

**Subject Item Inventory:**

| ID     | Description                                 | Tank Volume    | Max. Operating Rate | Normal Operating Rate       | Contents | Operating Time        |
|--------|---|----------------|---------------------|-----------------------------|----------|-----------------------|
| EQT015 | 3 Sulfur Storage Tank                       | 400000 gallons |                     | 32.75 MM gallons/yr         |          | 8760 hr/yr (All Year) |
| EQT016 | 4 Spent Sulfuric Acid Storage Tank No. 3    | 760000 gallons |                     | 20 MM gallons/yr            |          | 8760 hr/yr (All Year) |
| EQT017 | 5 Spent Sulfuric Acid Storage Tank No. 2    | 805000 gallons |                     | 20 MM gallons/yr            |          | 8760 hr/yr (All Year) |
| EQT019 | 7 Loading Racks                             |                | 31 MM lbs/yr        | 31 MM lbs/yr                |          | 8760 hr/yr (All Year) |
| EQT020 | 9 Sulfuric Acid Storage Tank                | 808400 gallons |                     | 38.8 MM gallons/yr          |          | 8760 hr/yr (All Year) |
| EQT021 | 10 Vapor Combustion Unit                    |                | 12 MM BTU/hr        | 191 SCFM                    |          | 1747 hr/yr (All Year) |
| EQT022 | 12 Barge Loading Dock                       |                | 984400 gallons/yr   | 984400 gallons/yr           |          | 11 hr/yr (All Year)   |
| EQT023 | 14 East Storage Tank-Sulfuric Acid Product  | 808400 gallons |                     | 38.8 MM gallons/yr          |          | 8760 hr/yr (All Year) |
| EQT024 | 15 North Storage Tank-Sulfuric Acid Product | 808400 gallons |                     | 38.8 MM gallons/yr          |          | 8760 hr/yr (All Year) |
| EQT025 | 16 South Storage Tank-Sulfuric Acid Product | 808400 gallons |                     | 38.8 MM gallons/yr          |          | 8760 hr/yr (All Year) |
| EQT026 | 17 Oleum Storage Tank                       | 330000 gallons |                     | 10 MM gallons/yr            |          | 8760 hr/yr (All Year) |
| EQT027 | 18 Sulfur Trioxide Demister                 |                |                     |                             |          | 200 hr/yr (All Year)  |
| EQT028 | 19 Portable Gasoline Storage Tank           | 300 gallons    |                     | 7800 gallons/yr             |          | 8760 hr/yr (All Year) |
| EQT029 | 20 Spent Sulfuric Acid Storage Tank No. 1   | 805000 gallons |                     | 20 MM gallons/yr            |          | 8760 hr/yr (All Year) |
| EQT030 | 1 Sulfuric Acid Plant                       |                | 2600 tons/day       | 2300 tons/day               |          | 8760 hr/yr (All Year) |
| EQT031 | 6 Sulfur Unloading Pit                      |                | 185000 tons/yr      | 6667 lb/min                 |          | 8760 hr/yr (All Year) |
| EQT032 | 21 Package Boiler                           |                | 35 MM BTU/hr        | 53.6 MM ft <sup>3</sup> /yr |          | 1512 hr/yr (All Year) |
| FUG002 | 13 General Plant Fugitives                  |                |                     |                             |          | 8760 hr/yr (All Year) |

**Subject Item Groups:**

| ID     | Description                  | Included Components (from Above)                  |
|--------|------------------------------|---|
| GRP002 | Burnside Sulfuric Acid Plant | EQT15 3 Sulfur Storage Tank                       |
| GRP002 | Burnside Sulfuric Acid Plant | EQT16 4 Spent Sulfuric Acid Storage Tank No. 3    |
| GRP002 | Burnside Sulfuric Acid Plant | EQT17 5 Spent Sulfuric Acid Storage Tank No. 2    |
| GRP002 | Burnside Sulfuric Acid Plant | EQT19 7 Loading Racks                             |
| GRP002 | Burnside Sulfuric Acid Plant | EQT20 9 Sulfuric Acid Storage Tank                |
| GRP002 | Burnside Sulfuric Acid Plant | EQT21 10 Vapor Combustion Unit                    |
| GRP002 | Burnside Sulfuric Acid Plant | EQT22 12 Barge Loading Dock                       |
| GRP002 | Burnside Sulfuric Acid Plant | EQT23 14 East Storage Tank-Sulfuric Acid Product  |
| GRP002 | Burnside Sulfuric Acid Plant | EQT24 15 North Storage Tank-Sulfuric Acid Product |
| GRP002 | Burnside Sulfuric Acid Plant | EQT25 16 South Storage Tank-Sulfuric Acid Product |
| GRP002 | Burnside Sulfuric Acid Plant | EQT26 17 Oleum Storage Tank                       |
| GRP002 | Burnside Sulfuric Acid Plant | EQT27 18 Sulfur Trioxide Demister                 |
| GRP002 | Burnside Sulfuric Acid Plant | EQT28 19 Portable Gasoline Storage Tank           |
| GRP002 | Burnside Sulfuric Acid Plant | EQT29 20 Spent Sulfuric Acid Storage Tank No. 1   |
| GRP002 | Burnside Sulfuric Acid Plant | EQT30 1 Sulfuric Acid Plant                       |

**INVENTORIES**

**AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility**

Activity Number: PER20060002

Permit Number: 0180-00007-V4

**Air - Title V Regular Permit Major Mod**

**Subject Item Groups:**

| ID     | Description                  | Included Components (from Above) |
|--------|------------------------------|----------------------------------|
| GRP002 | Burnside Sulfuric Acid Plant | EQT131 6 Sulfur Unloading Pit    |
| GRP002 | Burnside Sulfuric Acid Plant | EQT132 21 Package Boiler         |
| GRP002 | Burnside Sulfuric Acid Plant | FUG2 13 General Plant Fugitives  |

**Relationships:**

| Subject Item                                    | Relationship  | Subject Item                       |
|---|---------------|------------------------------------|
| EQT16 4 Spent Sulfuric Acid Storage Tank No. 3  | Controlled by | EQT21 10 Vapor Combustion Unit     |
| EQT17 5 Spent Sulfuric Acid Storage Tank No. 2  | Controlled by | EQT21 10 Vapor Combustion Unit     |
| EQT26 17 Oleum Storage Tank                     | Vents to      | EQT20 9 Sulfuric Acid Storage Tank |
| EQT29 20 Spent Sulfuric Acid Storage Tank No. 1 | Controlled by | EQT21 10 Vapor Combustion Unit     |

**Stack Information:**

| ID   | Velocity (ft/sec) | Flow Rate (cubic ft/min-actual) | Diameter (feet) | Discharge Area (square feet) | Height (feet) | Temperature (oF) |
|--|-------------------|---------------------------------|-----------------|------------------------------|---------------|------------------|
| EQT015 3 Sulfur Storage Tank                       |                   |                                 |                 |                              |               |                  |
| EQT019 7 Loading Racks                             |                   |                                 |                 |                              |               |                  |
| EQT020 9 Sulfuric Acid Storage Tank                |                   |                                 |                 |                              |               |                  |
| EQT021 10 Vapor Combustion Unit                    | 30.2              | 4200                            | 5.5             |                              | 30            | 1500             |
| EQT023 14 East Storage Tank-Sulfuric Acid Product  |                   |                                 |                 |                              |               |                  |
| EQT024 15 North Storage Tank-Sulfuric Acid Product |                   |                                 |                 |                              |               |                  |
| EQT025 16 South Storage Tank-Sulfuric Acid Product |                   |                                 |                 |                              |               |                  |
| EQT026 17 Oleum Storage Tank                       |                   |                                 |                 |                              |               |                  |
| EQT027 18 Sulfur Trioxide Demister                 | 25                | 1178                            | 1               |                              | 25            |                  |
| EQT030 1 Sulfuric Acid Plant                       | 38.8              | 117000                          | 8               |                              | 200           | 175              |
| EQT031 6 Sulfur Unloading Pit                      |                   |                                 |                 |                              |               |                  |
| EQT032 21 Package Boiler                           | 13.9              | 1470                            | 1.5             |                              | 32            | 425              |

**Fee Information:**

| Subj Item Id | Multiplier | Units Of Measure | Fee Desc   |
|--------------|------------|------------------|--|
| GRP002       | 2300       | Ton/Day          | 0540 - Sulphuric Acid Manufacture (Rated Capacity) |

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility  
 Activity Number: PER20060002  
 Permit Number: 0180-00007-V4  
 Air - Title V Regular Permit Major Mod

**All phases**

| Subject Item  | PM <sub>10</sub> |           |           | SO <sub>2</sub> |           |           | NOx       |           |           | CO        |           |           | VOC       |           |           |
|---------------|------------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|               | Avg lb/hr        | Max lb/hr | Tons/Year | Avg lb/hr       | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 015<br>03 | 0.04             | 0.04      | 0.05      |                 |           |           |           |           |           |           |           |           |           |           |           |
| EQT 019<br>07 |                  |           |           | 0.59            | 1.18      | 0.01      |           |           |           |           |           |           | 0.21      | 1         | 0.91      |
| EQT 021<br>10 | 0.09             | 0.09      | 0.08      | 0.09            | 0.2       | 0.08      | 0.82      | 0.82      | 0.71      | 4.44      | 4.44      | 3.89      | 1.68      | 1.68      | 1.47      |
| EQT 028<br>19 |                  |           |           |                 |           |           |           |           |           |           |           |           | 0.05      | 0.05      | 0.2       |
| EQT 030<br>01 |                  |           |           | 230             | 1625      | 1007.4    | 17.31     | 18.98     | 75.82     | 31.61     | 37.93     | 138.45    |           |           |           |
| EQT 031<br>06 | 0.01             | 0.18      | 0.05      |                 |           |           |           |           |           |           |           |           |           |           |           |
| EQT 032<br>21 | 0.25             | 0.25      | 0.2       | 0.02            | 0.02      | 0.02      | 0.83      | 0.83      | 0.66      | 2.81      | 2.81      | 2.25      | 0.18      | 0.18      | 0.15      |
| FUG 002<br>13 |                  |           |           |                 |           |           |           |           |           |           |           |           | 0.19      | 0.19      | 0.83      |

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

**Permit Phase Totals:**

PM10: 0.38 tons/yr  
 SO2: 1007.51 tons/yr  
 NOx: 77.19 tons/yr  
 CO: 144.59 tons/yr  
 VOC: 3.56 tons/yr

**Emission rates Notes:**

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility

Activity Number: PER20060002

Permit Number: 0180-00007-V4

Air - Title V Regular Permit Major Mod

**All phases**

|               |           | Sulfuric acid |           |  |
|---------------|-----------|---------------|-----------|--|
| Subject Item  | Avg lb/hr | Max lb/hr     | Tons/Year |  |
| EQT 019<br>07 | 0.04      | 0.04          | 0.16      |  |
| EQT 020<br>09 | 0.04      | 0.04          | 0.18      |  |
| EQT 022<br>12 | 15.25     | 15.25         | 0.08      |  |
| EQT 023<br>14 | < 0.001   | < 0.001       | 0.001     |  |
| EQT 024<br>15 | < 0.001   | < 0.001       | 0.001     |  |
| EQT 025<br>16 | < 0.001   | < 0.001       | 0.001     |  |
| EQT 027<br>18 | 0.15      | 0.15          | 0.02      |  |
| EQT 030<br>01 | 14.38     | 16.3          | 63        |  |
| FUG 002<br>13 | 0.12      | 0.12          | 0.52      |  |

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

**Permit Parameter Totals:**

Sulfuric acid: 63.96 tons/yr

**Emission Rates Notes:**

## SPECIFIC REQUIREMENTS

AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility

Activity Number: PER20060002

Permit Number: 0180-00007-V4

Air - Title V Regular Permit Major Mod

### EQT015 3 Sulfur Storage Tank

1 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]

### EQT016 4 Spent Sulfuric Acid Storage Tank No. 3

2 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. Spent acid containing 5-8 wt% VOC. Emission from this tank is controlled by the Vapor Combustion Unit, EQT021 when the sulfuric acid plant is shut down. [LAC 33:III.2103.E.1]

Which Months: All Year Statistical Basis: None specified

3 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

4 VOC, Total  $\geq$  95 % reduction efficiency using a closed vent system and control device. Emission from this tank is controlled by the Vapor Combustion Unit, EQT02 when the sulfuric acid plant is shut down. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

5 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]

### EQT017 5 Spent Sulfuric Acid Storage Tank No. 2

6 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. Emission from this tank is controlled by the Vapor Combustion Unit, EQT021 when the sulfuric acid plant is shut down. [LAC 33:III.2103.E.1]

Which Months: All Year Statistical Basis: None specified

7 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

8 VOC, Total  $\geq$  95 % reduction efficiency using a closed vent system and control device. Emission from this tank is controlled by the Vapor Combustion Unit, EQT021 when the sulfuric acid plant is shut down. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

9 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]

### EQT019 7 Loading Racks

10 VOC, Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks. Loading racks are used to load oleum, which is not a VOC. Unloading is vapor balanced. [LAC 33:III.2107.C]

Which Months: All Year Statistical Basis: None specified

11 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.1 and 2. [LAC 33:III.2107.D]

12 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. [LAC 33:III.5109.A]

## SPECIFIC REQUIREMENTS

AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility

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### EQT020      9 Sulfuric Acid Storage Tank

13 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. [LAC 33:III.5109.A]

### EQT021      10 Vapor Combustion Unit

14 Opacity  $\leq$  20 percent, *except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators*, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year      Statistical Basis: None specified

15 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year      Statistical Basis: None specified

16 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. Maintain firebox temperature  $\geq$  1500 degree F. This is control device for EQT016, EQT017, & EQT029 when the sulfuric acid plant is shut down. [LAC 33:III.2103.E.1]

Which Months: All Year      Statistical Basis: None specified

17 Determine compliance with LAC 33:III.2103.E using the methods in LAC 33:III.2103.H.2.a-e, where appropriate. Continuous monitor and record firebox temperature. [LAC 33:III.2103.H.2]

18 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

19 Closed vent system: Design to collect all VOC vapors and gases discharged from the storage vessel. Subpart Kb. [40 CFR 60.112b(a)(3)(i)]

20 VOC, Total  $\geq$  95 % reduction efficiency Maintain firebox temperature  $\geq$  1500 degree F. This is control device for EQT016, EQT017, & EQT029 when the sulfuric acid plant is shut down. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]

Which Months: All Year      Statistical Basis: None specified

21 Operating plan recordkeeping by electronic or hard copy at the approved frequency. Keep copies of all records for the life of the control equipment. Subpart Kb. [40 CFR 60.115b(c)(1)]

22 Monitoring data recordkeeping by electronic or hard copy upon measurement in accordance with the operating plan of 40 CFR 60.113b(c)(2). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(c)(2)]

### EQT022      12 Barge Loading Dock

23 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. [LAC 33:III.5109.A]

### EQT023      14 East Storage Tank-Sulfuric Acid Product

24 Control emissions of toxic air pollutants (TAPs) to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. [LAC 33:III.5109.A]

### EQT024      15 North Storage Tank-Sulfuric Acid Product

## SPECIFIC REQUIREMENTS

AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility

Activity Number: PER20060002

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### EQT024 15 North Storage Tank-Sulfuric Acid Product

25 Control emissions of toxic air pollutants (TAPs) to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. [LAC 33:III.5109.A]

### EQT025 16 South Storage Tank-Sulfuric Acid Product

26 Control emissions of toxic air pollutants (TAPs) to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. [LAC 33:III.5109.A]

### EQT026 17 Oleum Storage Tank

27 Control emissions of toxic air pollutants (TAPs) to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. This tank vents through sulfuric acid tank, EQT020. [LAC 33:III.5109.A]

### EQT027 18 Sulfur Trioxide Demister

28 Control emissions of toxic air pollutants (TAPs) to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. [LAC 33:III.5109.A]

### EQT028 19 Portable Gasoline Storage Tank

29 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

### EQT029 20 Spent Sulfuric Acid Storage Tank No. 1

30 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. Emission from this tank is controlled by the Vapor Combustion Unit, EQT021 when the sulfuric acid plant is shut down. [LAC 33:III.2103.E.1]

Which Months: All Year Statistical Basis: None specified

31 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

32 VOC, Total  $\geq$  95 % reduction efficiency using a closed vent system and control device. Emission from this tank is controlled by the Vapor Combustion Unit, EQT021 when the sulfuric acid plant is shut down. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

33 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]

### EQT030 1 Sulfuric Acid Plant

34 Acid mist  $\leq$  0.15 lb/ton of 100% H2SO4. Meet this standard through the use of dual absorption and demisters. [LAC 33:III.1503.A]

Which Months: All Year Statistical Basis: Three-hour average

35 Sulfur dioxide  $\leq$  2.4 lb/ton of 100% sulfuric acid produced. [LAC 33:III.1503.A]

Which Months: All Year Statistical Basis: Three-hour rolling average

## SPECIFIC REQUIREMENTS

AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility

Activity Number: PER20060002

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Air - Title V Regular Permit Major Mod

### EQT030 1 Sulfuric Acid Plant

- 36 Determine sulfur dioxide and sulfuric acid mist concentrations in stack gases using the methods in LAC 33:III.1503.D. Table 4. Use these methods for initial compliance determinations and for additional compliance determinations for those facilities not subject to continuous emission monitoring. [LAC 33:III.1503.D.1]
- 37 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. Ensure that the measurement system is certified according to Performance Specification 2 of 40 CFR 60, Appendix B, and quality assured by the procedures in 40 CFR 60, Appendix F. [LAC 33:III.1511.A]
- Which Months: All Year Statistical Basis: None specified
- 38 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate compliance with the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 39 Submit report: Due annually, by the 31st of March, in accordance with LAC 33:III.918. Report data required to demonstrate compliance with the provisions of LAC 33:III Chapter 15. [LAC 33:III.1513]
- 40 Submit quarterly reports of three-hour excess emissions and reports of emergency conditions, in accordance with LAC 33:III Chapter 39. [LAC 33:III.1513]
- 41 Sulfur dioxide  $\leq$  15 lb/ton of 100% sulfuric acid produced during first 12 hours of operation after startup. Sulfur dioxide  $\leq$  6 lb/ton of 100% sulfuric acid produced during next 12 hours of operation. [LAC 33:III.509]
- Which Months: All Year Statistical Basis: Three-hour rolling average
- 42 Sulfuric acid  $\leq$  2600 tons/day production. [LAC 33:III.509]
- Which Months: All Year Statistical Basis: Instantaneous maximum
- 43 Sulfuric acid  $\leq$  839500 tons/yr production. [LAC 33:III.509]
- Which Months: All Year Statistical Basis: Annual average
- 44 Dual absorption will be installed at Burnside Plant by September 1, 2009. [LAC 33:III.509]
- 45 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. [LAC 33:III.5109.A]
- 46 Sulfur dioxide  $\leq$  2.4 lb/ton of 100% sulfuric acid produced. Subpart H. [40 CFR 60.82(a)(1) and PSD]
- Which Months: All Year Statistical Basis: Three-hour rolling average
- 47 Acid mist  $\leq$  0.15 lb/ton (0.075 kg/metric ton) of acid produced, expressed as H2SO4, the production being expressed as 100% H2SO4. Meet this standard through the use of dual absorption and demisters. Subpart H. [40 CFR 60.83(a)(1) and PSD]
- Which Months: All Year Statistical Basis: None specified
- 48 Opacity  $<$  10 percent. Subpart H. [40 CFR 60.83(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 49 Sulfur dioxide monitored by CMS continuously. Subpart H. [40 CFR 60.84(a)]
- Which Months: All Year Statistical Basis: None specified
- 50 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.85, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart H. [40 CFR 60.85(a)]
- 51 Determine compliance with the SO2, acid mist, and visible emission standards in 40 CFR 60.82 and 60.83 using the test methods and procedures specified in 40 CFR 60.85(b) and (c), as applicable. Subpart H. [40 CFR 60.85(b)]
- 52 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 53 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

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### EQT030 1 Sulfuric Acid Plant

- 54 Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 55 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

### EQT031 6 Sulfur Unloading Pit

- 56 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]

### EQT032 21 Package Boiler

- 57 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 58 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 59 Submit notification: Due as specified in 40 CFR 60.7. Submit the date of construction or reconstruction, anticipated startup, and actual startup. Include the information specified in 40 CFR 60.48c(a)(1) through (a)(4) as applicable. Subpart Dc. [40 CFR 60.48c(a)]
- 60 Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. If only very low sulfur fuel oil or other liquid or gaseous fuels with potential sulfur dioxide emissions rate of 0.32 lb/MMBTU (140 ng/J) heat input or less is burnt, keep records of the fuels combusted during each calendar month. Subpart Dc. [40 CFR 60.48c(g)]
- 61 Maintain all records required under 40 CFR 60.48c for a period of 2 years following the date of such record. Subpart Dc. [40 CFR 60.48c(i)]

### FUG002 13 General Plant Fugitives

- 62 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Sulfuric acid is a Class III TAP and the Ambient Air Standard is being met. MACT is not required. [LAC 33:III.5109.A]

### GRP002 Burnside Sulfuric Acid Plant

- 63 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 64 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 65 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.A.1-5. [LAC 33:III.2113.A]

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### GRP002 Burnside Sulfuric Acid Plant

- 66 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 67 Nitrogen oxides  $\leq$  77.19 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 68 Carbon monoxide  $\leq$  144.59 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 69 Particulate matter (10 microns or less)  $\leq$  0.38 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 70 Sulfur dioxide  $\leq$  1007.51 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 71 VOC, Total  $\leq$  3.56 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 72 Sulfuric acid  $\leq$  63.96 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 73 Comply with the requirements of PSD-LA-722 in Appendix A. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-722. [LAC 33:III.509]
- 74 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 75 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 76 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 77 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 78 Submit Annual Emissions Report (TED): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 79 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 80 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 81 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.2]

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### GRP002 Burnside Sulfuric Acid Plant

- 82 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.3]
- 83 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 84 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 85 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 86 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B]
- 87 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 88 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 89 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 90 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 91 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 92 Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test. [LAC 33:III.5113.B.1]
- 93 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III.5113.B.2]
- 94 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 95 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 96 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 97 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 98 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 99 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]

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### GRP002 Burnside Sulfuric Acid Plant

- 100 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 101 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 102 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 103 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 104 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 105 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 106 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 107 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 108 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 109 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 110 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 111 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 112 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 113 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 114 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 115 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 116 Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]
- 117 Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]

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### GRP002 Burnside Sulfuric Acid Plant

- 118 Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]
- 119 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]
- 120 Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999. [40 CFR 68.150]
- 121 Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g). [40 CFR 68.155]
- 122 Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13). [40 CFR 68.160]
- 123 Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13). [40 CFR 68.165]
- 124 Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a). [40 CFR 68.168]
- 125 Provide in the RMP the information indicated in 68.175(b) through (p). [40 CFR 68.175]
- 126 Provide in the RMP the emergency response information listed in 68.180(a) through (c). [40 CFR 68.180]
- 127 Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
- 128 Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 129 Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999. [40 CFR 68.190]
- 130 Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided. [40 CFR 68.200]
- 131 Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences. [40 CFR 68.22]
- 132 Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h). [40 CFR 68.25]
- 133 Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e). [40 CFR 68.28]
- 134 Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.30]
- 135 List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.33]
- 136 Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 137 Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36]
- 138 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses. [40 CFR 68.39]
- 139 Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release. [40 CFR 68.42]

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### GRP002 Burnside Sulfuric Acid Plant

- 140 Compile written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by 40 CFR 68. [40 CFR 68.65(a)]
- 141 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that equipment complies with recognized and generally accepted good engineering practices. [40 CFR 68.65(d)(2)]
- 142 Determine that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]
- 143 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]
- 144 Determine the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 145 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 146 Use one or more of the methodologies in Sec. 68.67(b)(1) through (b)(7) to determine and evaluate the hazards of the process being analyzed. [40 CFR 68.67(b)]
- 147 Use a team with expertise in engineering and process operations to perform the process hazard analysis. Include at least one employee who has experience and knowledge specific to the process being evaluated, and at least one employee who is knowledgeable in the specific process hazard analysis methodology being used. [40 CFR 68.67(d)]
- 148 Establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions. [40 CFR 68.67(e)]
- 149 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the resolution of the recommendations of the team performing the process hazard analysis, and what actions are to be taken. [40 CFR 68.67(e)]
- 150 Update and revalidate the process hazard analysis at least every five years after the completion of the initial process hazard analysis, to assure that the process hazard analysis is consistent with the current process. Use a team that meets the requirements in Sec. 68.67(d). [40 CFR 68.67(f)]
- 151 Retain process hazards analyses and updates or revalidations for each process covered by this section, as well as the documented resolution of recommendations described in Sec. 68.67(e), for the life of the process. [40 CFR 68.67(g)]
- 152 Perform an initial process hazard analysis (hazard evaluation) on processes covered by 40 CFR 68 as soon as possible, but not later than June 21, 1999. The process hazard analysis shall identify, evaluate, and control the hazards involved in the process, and address the information in 40 CFR 68.67(c)(1) through (7). [40 CFR 68.67]
- 153 Develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information. Address steps for each operating phase, operating limits, safety and health considerations, and safety systems and their functions in the procedures. [40 CFR 68.69(a)]
- 154 Make operating procedures readily accessible to employees who work in or maintain a process. [40 CFR 68.69(b)]
- 155 Review operating procedures as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment, and changes to stationary sources. Certify annually that these operating procedures are current and accurate. [40 CFR 68.69(c)]
- 156 Develop and implement safe work practices to provide for the control of hazards during specific operations. [40 CFR 68.69(d)]

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### GRP002 Burnside Sulfuric Acid Plant

- 157 Train each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, in an overview of the process and in the operating procedures as specified in Sec. 68.69. Emphasize the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks. [40 CFR 68.71(a)(1)]
- 158 Provide refresher training at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.71(b)]
- 159 Ascertain that each employee involved in operating a process has received and understood the training required by Sec. 68.71. [40 CFR 68.71(c)]
- 160 Equipment/operational data recordkeeping by electronic or hard copy continuously. Prepare a record which contains the identity of the employee, the date of training required by 40 CFR 68.71, and the means used to verify that the employee understood the training. [40 CFR 68.71(c)]
- 161 Establish and implement written procedures to maintain the ongoing integrity of process equipment listed in Sec. 68.73(a). [40 CFR 68.73(b)]
- 162 Train each employee involved in maintaining the ongoing integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner. [40 CFR 68.73(c)]
- 163 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document each inspection and test that has been performed on process equipment. Maintain records of the information specified in Sec. 68.73(d)(4). [40 CFR 68.73(d)(4)]
- 164 Perform inspections and tests following recognized and generally accepted good engineering practices on process equipment listed in 40 CFR 68.73(a). Make the frequency of inspections and tests consistent with applicable manufacturer's recommendations and good engineering practices, and more frequently if determined to be necessary by prior operating experience. [40 CFR 68.73(d)]
- 165 Correct deficiencies in equipment that are outside acceptable limits before further use or in a safe and timely manner when necessary means are taken to assure safe operation. [40 CFR 68.73(e)]
- 166 Assure that equipment as it is fabricated is suitable for the process application for which it will be used, in the construction of new plants and equipment. Perform appropriate checks and inspections to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions. Assure that maintenance materials, spare parts and equipment are suitable for the process application for which they will be used. [40 CFR 68.73(f)]
- 167 Inform employees involved in operating a process, and maintenance and contract employees whose job tasks will be affected, of a change in the process and train them in the change, prior to start-up of the process or affected part of the process. [40 CFR 68.75(c)]
- 168 Update the process safety information required by Sec. 68.65 if a change covered by 68.75 results in a change in the process safety information. [40 CFR 68.75(d)]
- 169 Update the operating procedures or practices required by Sec. 68.69 if a change covered by 68.75 results in a change in the operating procedures or practices. [40 CFR 68.75(e)]
- 170 Establish and implement written procedures to manage changes to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process. Assure that the considerations specified in Sec. 68.75(b)(1) through (b)(5) are addressed prior to any change. [40 CFR 68.75]
- 171 Perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information. Safety review must confirm the information specified in Sec. 68.77(b)(1) through (b)(4) prior to the introduction of regulated substances to a process. [40 CFR 68.77]
- 172 Develop a report of the findings of the compliance audit required by 40 CFR 68.79(a). [40 CFR 68.79(c)]
- 173 Determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.79(d)]
- 174 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.79(d)]
- 175 Retain the two (2) most recent compliance audit reports. [40 CFR 68.79(e)]
- 176 Conduct compliance audit: Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process. [40 CFR 68.79]

**SPECIFIC REQUIREMENTS**

**AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility**

**Activity Number: PER20060002**

**Permit Number: 0180-00007-V4**

**Air - Title V Regular Permit Major Mod**

**GRP002 Burnside Sulfuric Acid Plant**

- 177 Establish an incident investigation team consisting of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. [40 CFR 68.81(c)]
- 178 Establish a system to promptly address and resolve the incident report findings and recommendations. [40 CFR 68.81(e)]
- 179 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the incident report findings and recommendations. [40 CFR 68.81(e)]
- 180 Conduct incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in a catastrophic release of a regulated substance. [40 CFR 68.81]
- 181 Prepare a report at the conclusion of the incident investigation which includes, at a minimum, the information specified in 40 CFR 68.81(d)(1) through (5). Review the report with all affected personnel whose job tasks are relevant to the incident findings including contract employees where applicable. Retain the incident investigation reports for five years. [40 CFR 68.81]
- 182 Develop a written plan of action regarding the implementation of the employee participation required by 40 CFR 68. [40 CFR 68.83(a)]
- 183 Consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management. [40 CFR 68.83(b)]
- 184 Provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under 40 CFR 68. [40 CFR 68.83(c)]
- 185 Issue a hot work permit for hot work operations conducted on or near a covered process. Document in the permit that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations; indicate the date(s) authorized for hot work; and identify the object on which hot work is to be performed. Keep permit on file until completion of the hot work operations. [40 CFR 68.85]
- 186 Obtain and evaluate information regarding the contract owner or operator's safety performance and programs, when selecting a contractor. [40 CFR 68.87(b)(1)]
- 187 Inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process. [40 CFR 68.87(b)(2)]
- 188 Explain to the contract owner or operator the applicable provisions of 40 CFR 68 Subpart E. [40 CFR 68.87(b)(3)]
- 189 Develop and implement safe work practices consistent with Sec. 68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas. [40 CFR 68.87(b)(4)]
- 190 Periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in 40 CFR 68.87(c). [40 CFR 68.87(b)(5)]
- 191 Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]
- 192 Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]
- 193 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 194 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 195 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(ii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]

**SPECIFIC REQUIREMENTS**

**AI ID: 67572 - E I Dupont de Nemours & Co Inc - Burnside Plant A H2SO4 Contact Facility**

**Activity Number: PER20060002**

**Permit Number: 0180-00007-V4**

**Air - Title V Regular Permit Major Mod**

**GRP002 Burnside Sulfuric Acid Plant**

196 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

## 40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit. [Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement. [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

## 40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

## 40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

## 40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: *Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).*

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated December 14, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
    - 1. Report by June 30 to cover January through March
    - 2. Report by September 30 to cover April through June
    - 3. Report by December 31 to cover July through September
    - 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.

XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.

XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.